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MEDICAL RESEARCH

NIH's Role in Sustaining the U.S. Economy

NIH

#keepNIHstrong

2023 UPDATE

An Investment that Saves Lives and Fuels the Economy

Each year, researchers supported by the National Institutes of Health (NIH) are responsible for groundbreaking discoveries and innovations that change the trajectory of disease treatment locally and around the world. Even before discoveries are made, however, those same NIH research grants are supporting jobs and economic activity across the United States.

AN EXPONENTIAL RETURN ON INVESTMENT

$1 NIH FUNDED RESEARCH

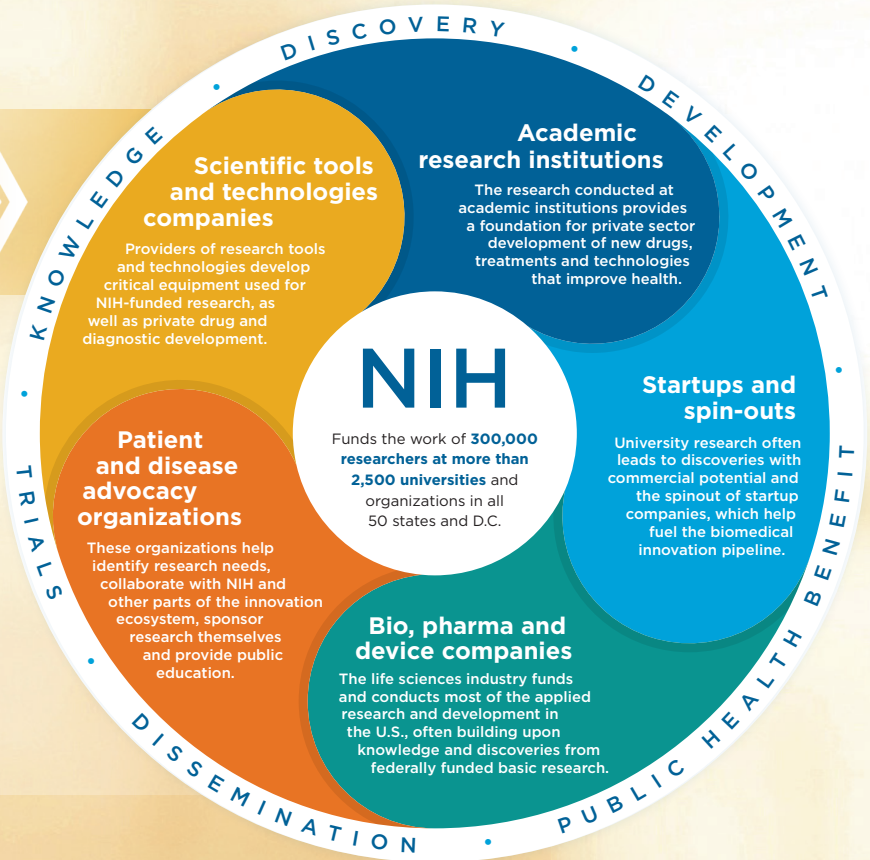
=

$2.64 ECONOMIC ACTIVITY

Every research dollar that leaves NIH does double duty. In Fiscal Year 2022, the **$36.68 billion** awarded to researchers in the 50 U.S. states and the District of Columbia supported **568,585 jobs** and **$96.84 billion in economic activity**.

THE NIH AND BIOMEDICAL INNOVATION

The National Institutes of Health sits at the center of the biomedical innovation ecosystem — funding, facilitating and conducting research through its 27 institutes and centers, as well as training the next generation of biomedical innovators. It is the power behind the global leadership of America's life sciences industry.



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The National Institutes of Health is a catalyst for innovation and economic growth, which makes maintaining a strong NIH a national priority. Thanks to bipartisan congressional commitment to patients and families affected by disease and to keeping the United States at the forefront of biomedical innovation, **the NIH budget has increased each year since FY2016.** This steady growth in the NIH budget has helped it to regain critical ground lost during a long period of stagnant funding.

MAKING PROGRESS

$13.86B
MORE GRANT FUNDING

$36.13B
MORE ECONOMIC ACTIVITY

216,236
MORE JOBS

2022 compared to 2015

RECENT INCREASES TO THE NIH BUDGET

	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
Total NIH appropriations	$32.311 billion	$34.300 billion	$37.311 billion	$39.313 billion	$41.636 billion	$42.936 billion	**$45.182 billion**
Total NIH research funds awarded in 50 states + D.C.	$24.59 billion	$26.10 billion	$28.05 billion	$30.82 billion	$34.65 billion	$35.73 billion	**$36.68 billion**
Total NIH research grants awarded in 50 states + D.C.	52,470	54,128	57,110	59,421	61,993	62,996	**64,657**
Total jobs supported nationwide	379,471	402,816	433,011	475,905	536,338	552,444	**568,585**
Total economic activity nationwide	$64.799 billion	$68.795 billion	$73.909 billion	$81.220 billion	$91.350 billion	$94.180 billion	**$96.846 billion**

A note about this data: Since 2011, UMR has provided an analysis of the employment and economic activity attributable to NIH extramural research spending. We rely on the RIMS II model maintained by the Bureau of Economic Analysis, which is part of the U.S. Department of Commerce. The analysis for this 2023 update was performed by Ronald Horst, Ph.D., Inforum.

Every State Benefits

As NIH funding is awarded to researchers in individual states, that funding supports employment and the purchase of research-related goods, services and materials. The income generated from these jobs and purchases cycles through the economy to produce new economic activity.

Researchers in every state receive NIH funding and every state benefits from the jobs and economic activity that result.

NIH RESEARCH SUPPORTS JOBS

now HIRING

568,585
TOTAL JOBS IN FY2022

42 states with **1,000+** jobs
26 states with **5,000+** jobs
16 states with **10,000+** jobs

NIH RESEARCH FUELS THE ECONOMY

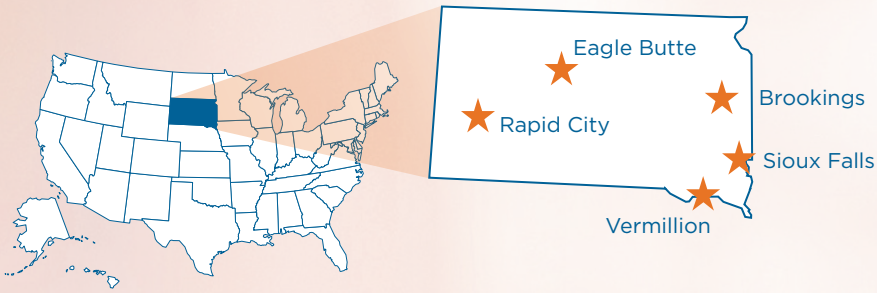
$96.84
BILLION IN NEW ECONOMIC ACTIVITY IN FY2022

46 states with **$100M+**
31 states with **$500M+**
23 states with **$1B+**

STATES WITH THE LARGEST PERCENT INCREASES FY2021 TO FY2022

AWARD FUNDING		JOBS		ECONOMIC ACTIVITY	
South Dakota	41.4%	South Dakota	22.2%	South Dakota	22.2%
New Jersey	21.3%	Minnesota	15.7%	Minnesota	15.7%
Minnesota	17.9%	New Jersey	14.4%	New Jersey	14.4%
Virginia	16.8%	Virginia	13.5%	Virginia	13.5%
Wyoming	15.1%	Nebraska	11.8%	Nebraska	11.8%

South Dakota | Research Locations



For more information on NIH research in your state, visit our **DIGITAL TOOLKIT**.

Economic Impact of NIH Research by State FY2022

State	NIH AWARDS ($M)	Jobs Created per $1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY ($M)
Alabama	385.1	12.9	4977	22.4	1115	**6092**	**935**
Alaska	16.7	11.8	197	137.4	270	**467**	**70**
Arizona	346.3	15.0	5185	36.0	1867	**7052**	**1039**
Arkansas	104.0	12.7	1322	52.8	698	**2020**	**281**
California	5477.7	13.5	73821	17.1	12649	**86470**	**15366**
Colorado	530.8	15.2	8064	22.8	1838	**9902**	**1570**
Connecticut	725.2	10.2	7368	14.6	1074	**8442**	**1676**
Delaware	78.2	8.0	622	39.0	243	**865**	**203**
District of Columbia	241.7	2.5	610	29.0	177	**787**	**473**
Florida	839.6	15.9	13389	43.9	5873	**19262**	**2693**
Georgia	842.4	16.6	14023	23.7	3317	**17340**	**2464**
Hawaii	57.5	13.3	766	60.3	462	**1228**	**181**
Idaho	18.4	11.8	216	182.4	394	**610**	**95**
Illinois	1198.0	14.3	17153	22.3	3820	**20973**	**3608**
Indiana	369.9	12.9	4781	37.9	1813	**6594**	**1024**
Iowa	211.2	12.2	2569	38.6	991	**3560**	**519**
Kansas	129.1	11.7	1515	52.5	795	**2310**	**379**
Kentucky	240.7	13.0	3119	34.6	1079	**4198**	**628**
Louisiana	227.1	13.8	3144	42.7	1343	**4487**	**631**
Maine	112.7	14.0	1575	23.8	376	**1950**	**264**
Maryland	2407.5	12.1	29203	5.9	1729	**30932**	**5556**
Massachusetts	3281.8	11.5	37708	6.0	2249	**39957**	**7743**
Michigan	925.2	13.6	12553	19.5	2450	**15003**	**2407**
Minnesota	760.0	13.0	9846	16.6	1639	**11485**	**1988**
Mississippi	61.5	12.6	774	77.5	600	**1373**	**193**
Missouri	802.7	12.1	9744	14.6	1424	**11168**	**1926**
Montana	41.0	13.5	556	52.8	293	**849**	**111**
Nebraska	155.3	13.1	2038	33.7	687	**2725**	**386**
Nevada	41.0	12.0	490	170.6	837	**1327**	**213**
New Hampshire	122.5	10.7	1314	26.8	352	**1666**	**306**
New Jersey	443.4	12.3	5457	46.0	2509	**7966**	**1496**
New Mexico	122.8	11.8	1445	33.4	483	**1928**	**301**
New York	3436.6	10.5	36205	18.3	6637	**42843**	**8525**
North Carolina	2164.6	14.6	31600	9.1	2873	**34473**	**5271**
North Dakota	26.7	10.8	287	97.2	279	**566**	**89**
Ohio	952.9	13.5	12910	24.4	3153	**16063**	**2624**
Oklahoma	136.7	14.5	1976	55.5	1096	**3072**	**423**
Oregon	399.7	13.7	5475	22.7	1241	**6716**	**989**
Pennsylvania	2193.6	12.4	27286	11.9	3234	**30520**	**5577**
Rhode Island	249.0	11.1	2770	9.9	274	**3044**	**506**
South Carolina	232.3	15.1	3510	37.4	1314	**4824**	**667**
South Dakota	29.4	12.1	357	80.3	287	**643**	**90**
Tennessee	711.7	13.3	9479	18.0	1707	**11186**	**1840**
Texas	1783.6	15.7	27972	31.3	8749	**36721**	**5764**
Utah	274.5	16.8	4598	23.1	1063	**5662**	**773**
Vermont	66.2	12.8	848	21.0	178	**1026**	**146**
Virginia	630.9	11.1	7033	30.8	2169	**9202**	**1748**
Washington	1460.1	12.4	18119	14.1	2548	**20667**	**3567**
West Virginia	49.0	11.4	560	69.9	392	**952**	**142**
Wisconsin	554.3	13.2	7327	23.7	1740	**9067**	**1329**
Wyoming	14.8	10.4	154	127.3	196	**350**	**52**
50 states plus D.C.	**$36,683**		474,011	20.0	9,4574	**568,585**	**$96,846**

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UMR is a coalition of leading research institutions, patient and health advocates and private industry seeking strong and sustainable increases in funding for the National Institutes of Health to save and improve lives, advance innovation and fuel the economy. UMR members include: AdvaMed, Alzheimer's Association, American Association for the Advancement of Science, American Cancer Society Cancer Action Network, Association of American Cancer Institutes, Association of American Universities, Association of Public and Land-grant Universities, BD, Boston University, Corning, Harvard University, Johns Hopkins University, Johnson & Johnson, Massachusetts Institute of Technology, Northwestern University, Stanford University, Thermo Fisher Scientific, University of Pennsylvania, Vanderbilt University, Vanderbilt University Medical Center and Washington University in St. Louis.